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CENTRAL INTELLIGENCE AGENCY
INFORMATION REPORT

COUNTRY USSR
SUBJECT Soviet 57mm and 100mm
Antiaircraft Guns

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SOURCE

1. The only technical data I can furnish on the 57mm and the 100mm antiaircraft guns is from hearsay. I cannot furnish any information at all about the "Khalidit" radar set.
2. The 57mm antiaircraft gun with automatic sight is a 1948 or 1949 model, in all likelihood, since it was during these years that it was being tested at proving grounds. The gun's characteristics are as follows:

Muzzle velocity 1150 meters per second
Maximum vertical range 9000 meters
Effective range up to 6000 meters
Rate of fire 60 rounds per minute

This gun may be fired both by direct laying, using the automatic sight, and by the basic method, using radar. The automatic sight is constructed on the principle of the speed and time of movement of a body in space. "Conoids" are used instead of registers of differentials and fractions.

3. The 100mm antiaircraft gun has the following characteristics:

Muzzle velocity 950 meters per second
Vertical range 14000 meters
Horizontal range 19000 meters
Rate of fire 25 to 30 rounds per minute

Most of the data on the 100mm antiaircraft gun are only approximate, since I am not familiar with the weapon and I have forgotten some data.

4. The system of numbering artillery and infantry weapons is set up by the Technical Department of the Main Artillery Administration of the Ministry of Armed Forces of the USSR. A specific series of numbers is assigned to each lot of an order for a certain type of weapon, corresponding to the factories which have received the order, and the order must go out under these numbers. The numbers of the barrels and the numbers of the guns as a whole do not coincide, since

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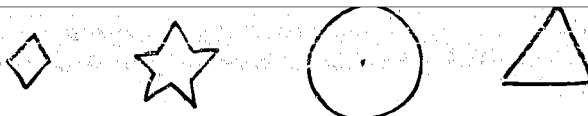
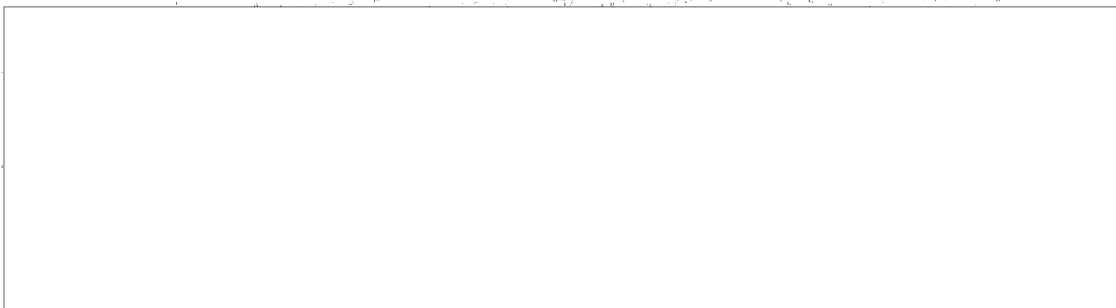
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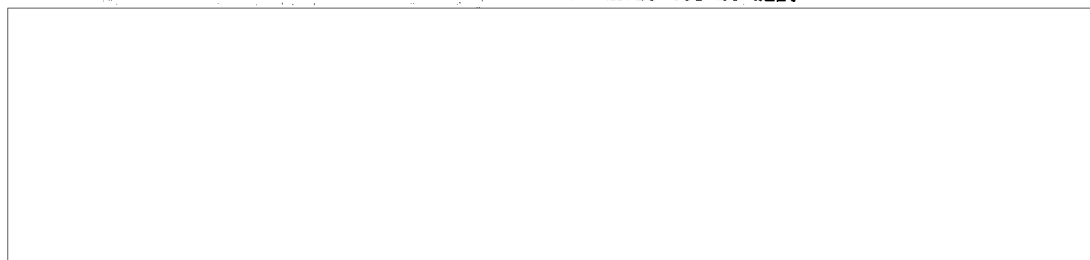
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The number of the order and the model were not indicated at all.

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6. It a gun is out of commission and is sent to a repair factory, it is entirely removed from the records of the military unit in which it was located, and the factory assigns its own number, which is taken from the series of numbers assigned to that factory.

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